



SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Wei, Ai-Ping, and
Williams, Michael G.
- (ii) TITLE OF INVENTION: Fluorogenic Protease Substrates Based on
Dye-Dimerization
- (iii) NUMBER OF SEQUENCES: 2
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: 3M Office of Intellectual Property
 - (B) STREET: 3M Center P.O. Box 33427
 - (C) CITY: St. Paul
 - (D) STATE: MN
 - (E) COUNTRY: USA
 - (F) ZIP: 55133-3427
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
 - (B) COMPUTER: HP
 - (C) OPERATING SYSTEM: Windows 2000 Professional
 - (D) SOFTWARE: Word 2000
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/846,828
 - (B) FILING DATE: 01 - MAY - 1997
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Jean A. Lown
 - (B) REGISTRATION NUMBER: 48,428
 - (C) REFERENCE/DOCKET NUMBER: 53091US009
- (ix) TELECOMMUNICATION INFORMATION
 - (A) TELEPHONE: (651)733-3169
 - (B) TELEFAX: (651)736-3833

(2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE:

(iii) HYPOTHETICAL: no

(iv) ANTI - SENSE: no

(v) FRAGMENT TYPE:
(A) N-terminal
(B) C-terminal

(vii) IMMEDIATE SOURCE:
(A) LIBRARY:
Manufacturer (GeneMed Biotechnologies, South San Francisco, CA,
USA)

(ix) FEATURE:
(A) NAME/KEY: peptide
(B) LOCATION: 1 . . 5
(C) IDENTIFICATION METHOD: Synthesis; verified by FAB mass
spectroscopy and amino acid analysis

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
Val Pro Arg Gly Lys
1 5

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE:
(A) DESCRIPTION: peptide

(iii) **HYPOTHETICAL:** no

(iv) ANTI - SENSE: no

(v) **FRAGMENT TYPE:**
 (A) modified C-terminal
 (B) modified N-terminal

- (vii) IMMEDIATE SOURCE:
(A) LIBRARY:
USA) Manufacturer (GeneMed Biotechnologies, South San Francisco, CA,
- (ix) FEATURE:
(A) NAME/KEY: peptide
(B) LOCATION: 1 . . 5
(C) IDENTIFICATION METHOD: Synthesis; verified by FAB mass spectroscopy and amino acid analysis
- (ix) FEATURE:
(A) NAME/KEY: misc-feature
(B) LOCATION: 1
(C) IDENTIFICATION METHOD: Synthesis
(D) OTHER INFORMATION: Xaa is Val-tetramethylrhodamine
- (ix) FEATURE
(A) NAME/KEY: misc-feature
(B) LOCATION: 5
(C) IDENTIFICATION METHOD: Synthesis
(D) OTHER INFORMATION: Xaa is Lys-tetramethylrhodamine
- (ix) FEATURE:
(A) NAME/KEY: cleavage site
(B) LOCATION: 3 . . 4
(C) IDENTIFICATION METHOD: Synthesis; verified by FAB mass spectroscopy and amino acid analysis
(D) OTHER INFORMATION; Enzyme Substrate
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2 :
Xaa Pro Arg Gly Xaa
1 5